

AMENDMENTS TO THE SPECIFICATION

Please replace the paragraph on page 2, lines 25–30, with the following amended paragraph:

However, with the related art configuration, for example in case a welding member substantially exceeding the operation range of the robot main body 101 is welded, it must be mounted on a shift device (not shown) for shifting the robot main body 101 leftward and rightward. As a result, the robot drive power cable 102a and the robot control cable 102b between the robot main body 101a 101 and the robot controller 102 must be extended.

Please replace the paragraph on page 4, lines 20-22, with the following amended paragraph:

In Fig. 1A, a numeral 1 represents a robot main body, 2 a robot controller, 2a a robot main body driving power cable, 2b a robot control cable, 3 a welding power supply, 4 a welding torch, 5 a wire feeder, [[1]] 6 a gas hose, 7 a gas flow regulator, and 8 a gas bomb.

Please replace the paragraph on page 5, lines 10–12, with the following amended paragraph:

The robot controller 2 is connected to the robot driving power cable 2a for driving the robot main body 1 and the robot control cable 2b for position control. The robot controller 2 is also connected to the welding power supply 3 therein.

Please replace the paragraph on page 6, lines 4–7, with the following amended paragraph:

As shown in Fig. 1B, it is possible to connect the sensor cable 2c to the robot main body 1 and the robot controller 2 and accommodate the wire feeder sensor cable 3b, the gas valve control cable 5f and the voltage feedback cable 5g in the sensor cable 2c instead of the robot main body driving power cable 2a.

Please replace the ABSTRACT with following amended paragraph:

Accommodating a welding control cable for connecting a welding power supply and a robot main body and a wire feeder sensor cable connected to a wire feeder encoder in a robot main body driving power cable connecting the robot main body and the robot controller of an arc welding robot. This configuration saves the number ~~the number~~ of cables to be connected thus improving the installation workability in system deployment on site as well as reducing the overall cost.